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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,217	01/02/2002	Robert Allan Unger	SNY-R4646.01	8614
24337 7590 04/19/2007 MILLER PATENT SERVICES			EXAMINER	
2500 DOCKE	RY LANE		MOORTHY, ARAVIND K	
RALEIGH, NC 27606			ART UNIT	PAPER NUMBER
			2131	
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	ONTHS	04/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/038,217	UNGER ET AL.				
Office Action Summary	Examiner	Art Unit .				
	Aravind K. Moorthy	2131				
The MAILING DATE of this communication ap	ppears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be to d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	N. imely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 i	February 2007.					
2a)⊠ This action is FINAL . 2b)□ Th	<u> </u>					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-40,51-135 and 139-178</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-30,62-135 and 165-176</u> is/are allowed.						
6)⊠ Claim(s) <u>31,51,139,148,150 and 152-154</u> is/are rejected.						
7) Claim(s) <u>32-40,52-61,140-147,149,151 and 1</u>	7)⊠ Claim(s) <u>32-40,52-61,140-147,149,151 and 155-164</u> is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner	·				
10)⊠ The drawing(s) filed on <u>02 January 2002</u> is/ar		d to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	(1)					
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure		·				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) A District of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
2) Notice of Braisperson's Patent Brawing Review (PTO-946) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>see attachment</u> . 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

1. This is in response to the communications filed on 12 February 2007.

2. Claims 1-40, 51-135 and 139-178 are pending in the application.

- 3. Claims 31, 51, 139, 148, 150 and 152-154 have been rejected.
- 4. Claims 1-30, 62-135 and 165-176 have been allowed.
- 5. Claims 32-40, 52-61, 140-147, 149, 151 and 155-164 have been objected to as being dependent upon a rejected base claim.
- 4. Claims 41-50 and 136-138 have been cancelled.

Information Disclosure Statement

5. The examiner has considered the information disclosure statement filed on 12 February 2007.

Response to Arguments

- 6. Regarding the prior art, the Applicant's arguments with respect to claims 1-40, 51-135 and 139-178 have been considered but are most in view of the new ground(s) of rejection.
- 7. Regarding the rejection under 35 U.S.C. 101, the examiner maintains the rejection. The Applicant's amendment does not overcome the rejection. Claims 1, 16, 31, 62, 89, 102, 148, 150, 153 and 154 are directed towards a signal with no function.

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Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

8. Claims 1, 16, 31, 62, 89, 102, 148, 150, 153 and 154 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Independent claims 1, 16, 31, 62, 89, 102, 148, 150, 153 and 154 are directed towards a method of encrypting a digital television signal. When nonfunctional descriptive material is recorded on some computer-readable medium, in a computer or on an electromagnetic carrier signal, it is not statutory since no requisite functionality is present to satisfy the practical application requirement. Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored in a computer-readable medium, in a computer, on an electromagnetic carrier signal does not make it statutory. See Diehr, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in Benson were unpatentable as abstract ideas because "[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer."). Such a result would exalt form over substance. In re Sarkar, 588 F.2d 1330, 1333, 200 USPO 132, 137 (CCPA 1978) ("[E]ach invention must be evaluated as claimed; yet semantogenic considerations preclude a determination based solely on words appearing in the claims. In the final analysis under Sec. 101, the claimed invention, as a whole, must be evaluated for what it is.") (quoted with approval in Abele, 684 F.2d at 907, 214 USPQ at 687). See also In re Johnson, 589 F.2d 1070, 1077, 200 USPQ 199, 206 (CCPA 1978) ("form of the claim is often an exercise in drafting").

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 1-30, 134 and 165 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent claims 1, 16 and 165 have been amended to include the limitation "distributing the multiple partially encrypted digital television signal". However, it is unclear to the examiner how a multiple partially encrypted digital signal can be distributed. If the unencrypted packets are replaced with first and second encrypted packets in the digital television signal, it is unclear how it is multiple partially encrypted. An unencrypted signal would not exist. Therefore, the whole signal would be encrypted and would not be multiple partially encrypted.

Claim 134 recites identifying packets of a packet type, encrypting packets of the packet type using a first encryption and a second encryption. Claim 134 recites replacing the packets of the packet type with the first and second encrypted packets to produce partially dual encrypted content. The examiner asserts that there is no recitation of a particular packet type that gets the first encryption and there is no particular packet type that gets the second encryption. It is unclear to the examiner how a packet with first and second encrypted packets can be partially encrypted. If everything is encrypted, how can it be partially encrypted?

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Double Patenting

10. Claims 31 and 152-154 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 7,124,303. Although the conflicting claims are not identical, they are not patentably distinct from each other.

Therefore, Claims 31 and 152-154 of the instant application are anticipated by claim 1 of U.S. Patent No. 7,124,303 because all the limitation of broader genus claims of the instant application are contained in the narrower species claims of U.S. Patent No. 7,124,303, as enunciated in ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

"A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a patent claim to a species within that genus). "
ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

11. Claims 51, 139, 148, 150 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 7,155,012. Although the conflicting claims are not identical, they are not patentably distinct from each other.

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Therefore, Claims 51, 139, 148, 150 of the instant application are anticipated by claim 22 of U.S. Patent No. 7,155,012 because all the limitation of broader genus claims of the instant application are contained in the narrower species claims of U.S. Patent No. 7,155,012, as enunciated in ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

"A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a patent claim to a species within that genus). "ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

Allowable Subject Matter

12. Claims 1-30, 62-135 and 165-176 are allowed.

Prior art does not disclose or fairly teach replacing the unencrypted packets of the packet type with the first and second encrypted packets in the digital television signal to produce a multiple partially encrypted digital television signal.

Prior art does not disclose or fairly teach that the encrypted packets comprise at least a first encrypted packet encrypted under first encryption method and a second encrypted packet

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encrypted under a second encryption method, and a remainder of the packets are unencrypted, wherein the encrypted packets contain information that is required for correct decoding of the television signal.

Any claims not directly addressed are allowed on the virtue of their dependency.

13. Claims 32-40, 51-61, 140-147, 149, 151 and 155-164 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793. The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aravind K Moorthy April 16, 2007

SUPERVISORY PATENT EXAMINE